IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT

Applicant(s):	Suranjan Panigrahi et al.	Docket No.:	43062.0200
Serial No.:		Group Art Unit:	
Filed:	July 31, 2003	Examiner:	
Title:	ON-THE-GO SUGAR SENSOR FOR DETERMINING SUGAR CONTENT DURING HARVESTING		

INFORMATION DISCLOSURE STATEMENT

Commissioner For Patents
Washington, D.C. 20231

Commissioner:

In accordance with the duty of disclosure under 37 C.F.R. §1.56 and pursuant to 37 C.F.R., §§1.97 and 1.98, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents listed on the attached Form PTO/SB/08A. One copy of each cited document was submitted previously with the parent application, U.S. Serial No. 09/758,392. Applicant respectfully submits that all pending claims are patentable over the foregoing references, alone or in combination. The Examiner is requested to initial the enclosed Form PTO/SB/08A and return a copy thereof to the undersigned.

The items listed on Form PTO/SB/08A may be deemed to be pertinent to the above-identified application and are made of record to assist the Patent and Trademark Office in its examination of this application. The Examiner is respectfully requested to fully consider the items and to independently ascertain their teaching.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicants reserve the right to dispute any of the listed documents as prior art during examination. Further, Applicants do not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application. Furthermore, the submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made or that no other material information may exist.

1. [ ] For each of the following items listed on the enclosed copy of Form PTO/SB/08A that is not in the English language, an English language translation of that item or a portion thereof or a concise explanation of the relevance of that item is enclosed:

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2. [X] Any copy of the items listed on the enclosed copy of Form PTO/SB/08A that is not enclosed with this Information Disclosure Statement was previously cited by or submitted to the Patent and Trademark Office in the prior [X] Parent Application, [ ] Continuation, [ ] Divisional or [ ] Continuation-In-Part application under 37 C.F.R. §1.97, U.S. Serial No. 09/758,392, filed January 12, 2001.

3. [X] No fee is due under 37 C.F.R. §1.17(p) for this Information Disclosure Statement since it is being filed in compliance with:

   [X] 37 C.F.R. §1.97(b)(1), within three months of the filing date of the above-identified application.

   [ ] 37 C.F.R. §1.97(b)(2), within three months of the date of entry into the national stage as set forth in §1.491 in an international application.

   [ ] 37 C.F.R. §1.97(b)(3), before the mailing date of a first Office action on the merits.

4. [ ] No fee is due under 37 C.F.R. §1.17(p) for this Information Disclosure Statement since it is being filed in compliance with 37 C.F.R. §1.97(c), after the period specified in paragraph 3 above but before the mailing date of a final action or a Notice of Allowance (where there has been no prior final action), and is accompanied by one of the certifications pursuant to 37 C.F.R. §1.97(e) set forth in paragraph 8 below.

5. [ ] A fee is due under 37 C.F.R. §1.17(p) for this Information Disclosure Statement since it is being filed in compliance with 37 C.F.R. §1.97(c), after the period specified in paragraph 3 above but before the mailing date of a final action or a notice of allowance (where there has been no prior final action):

   [ ] A check in the amount of $180.00 is enclosed in payment of the fee.

   [ ] Charge the fee to Deposit Account No. 19-2814. A DUPLICATE COPY OF THIS SHEET IS ATTACHED.

6. [ ] A fee is due under 37 C.F.R. §1.17(i)(1) for this Information Disclosure Statement since it is being filed in compliance with 37 C.F.R. §1.97(d), after the mailing date of a final action or a notice of allowance, whichever comes first, but before payment of the issue fee, and is accompanied by:

a. one of the certifications pursuant to 37 C.F.R. §1.97(e) set forth in paragraph 8 below; and

b. the attached petition requesting consideration of this Information Disclosure Statement; and

c. the fee due under 37 C.F.R. §1.17(i)(1) which is paid as set forth in paragraph 9 below.

7. [ ] A fee is due under 37 C.F.R. §1.17(i)(1) for this Information Disclosure Statement since it is being filed in compliance with:

a. [ ] 37 C.F.R. §1.313(b)(3), after the issue fee has been paid and information cited in this Information Disclosure Statement may render at least one claim unpatentable and is accompanied by the attached Petition To Withdraw Application From Issue;

b. [ ] 37 C.F.R. §1.313(b)(5), after the issue fee has been paid and information cited in this Information Disclosure Statement is to be considered in a Continuation application upon abandonment of the instant application and is accompanied by the attached Petition To Withdraw Application From Issue.

c. [ ] The fee due under 37 C.F.R. §1.17(i)(1) is paid as set forth in paragraph 9 below.

8. [ ] I hereby certify that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.

[ ] I hereby certify that no item of information in the Information Disclosure Statement filed herewith was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

9. [ ] A check in the amount of $180.00 is enclosed in payment of the fee due under 37 C.F.R. §1.17(p).

[ ] Charge the fee due under 37 C.F.R. §1.17(i)(1) to Deposit Account No. 19-2814. A DUPLICATE COPY OF THIS SHEET IS ATTACHED.

[ ] The Commissioner is hereby authorized to charge any additional fees which may be required for this Information Disclosure Statement, or credit any overpayment to Deposit Account No. 19-2814. A DUPLICATE COPY OF THIS SHEET IS ATTACHED.

Respectfully submitted,

Snell & Wilmer

Dated: 7/31/03

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Form PTO-1449 U.S. Department of Commerce Patent & Trademark Office **INFORMATION DISCLOSURE STATEMENT** *(Use several sheets if necessary)*	Atty. Docket No. 43062.0217	Serial No.
	Applicant Suranjan PANIGRAHI et al.	
	Filing Date July 31, 2003	Group Unknown

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date (if appropriate)
	AA	5,751,421	05/12/98	Wright et al.	356	328	
	AB	5,991,025	11/23/99	Wright et al.	356	328	
	AC	5,898,792	04/27/99	Oste et al.	382	110	
	AD	4,540,282	09/10/85	Landa et al.	356	328	
	AE	3,597,616	08/03/71	Brunton et al.	250	83.3	
	AF	4,040,747	08/09/77	Webster	356	188	
	AG	4,253,766	03/03/81	Funk	356	418	
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	AO	Philip C. Williams, et al.; Determination of Protein and Moisture in Wheat and Barley by Near-Infrared Transmission, 1985, pp. 239-244

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	AB	4,925,305	05/15/90	Erickson	356	300	
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	AE	5,239,180	08/24/93	Clarke	250	339	
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	AM	F. De Lene Mirouze et al., Quantitative Analysis of Glucose Syrups by ATR/FT-IR Spectroscopy, 1993, pp 1187-1191
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	AC	Dave Berard, Protein Monitor on the Market, 07/97, pp. 18-19
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	AE	Jerry Workman, Jr., A Compact Reference for Practitioners, pp. Contents and 423-435
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	AM	Nils Berding et al., Crop Ecology, Production & Management, 1991, pp1017-1023
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	AO	Roberto Giangiacomo et al., Near Infrared Spectrophotometric Determination of Individual Sugars in Aqueous Mixtures, 1986, pp 679-683
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	AO	File History – U.S. Patent No. 5,751,421
	AP	J. Sorvaniemi et al., Using Partial Least Squares Regression and Multiplicative Scatter Correction of FT-NIR Data Evaluation of Wheat Flours, 1993, pp 251-258

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	AH	Suming Chen et al., "Neural Network Analysis of Sugar Content in Fruit Juice", 07/18-21/99, pp. Title page thru 12
	AI	Renfu Lu et al., "Determination of Sugar Content and Firmness of Apples Using Near-Infrared Diffuse Reflectance", 07/9-12, 00, pp. Title page thru 16
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	AM	D. T. Lamb et al., "Moisture Determination in Single Soybean Seeds by Near-Infrared Transmittance", 1991, pp 2123-2129
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	AP	S. R. Delwiche, "Measurement of Single-Kernel Wheat Hardness Using Near-Infrared Transmittance", 1993, pp1431-1437

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	AB	5,218,529	06/08/93	Meyer et al.	702	028	
	AC	5,844,086	12/01/98	Murray	530	377	
	AD	6,005,076	12/21/99	Murray	530	377	
	AE	5,351,338	09/27/94	Wigren	704	219	
	AF	5,986,749	11/16/99	Wu et al.	356	073.1	
	AG	4,649,281	03/10/87	Schmitt et al.	250	574	
	AH	4,448,790	05/15/84	Sarkki et al.	426	052	
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	AN	B. G. Osborne, "Recent Progress in the Application of NIR to the Measurement of Quality Parameters in Flour", 1982, pp577-581
	AO	J. S. Shenk, "How NIR Can Help in Measuring Forage Quality for Breeding and Utilization Programs", (3) pages
	AP	Gerard Downey, "Estimation of Moisture in Undried Wheat and Barley by Near Reflectance", 1985, pp951-958

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	AA	4,836,017	06/06/89	Bozek	073	152.42	
	AB	5,755,672	05/26/98	Arai et al.	600	547	
	AC	3,886,331	05/27/75	Schierer	356	308	
	AD	5,317,524	05/31/94	Das et al.	702	134	
	AE	5,442,438	08/15/95	Batchelder et al.	356	301	
	AF	5,689,333	11/18/97	Batchelder et al.	356	301	
	AG	3,876,881	04/08/75	Bohlen	250	361.C	
	AH	5,130,158	07/14/92	Otsubo et al.	426	622	
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	AL	Shuso Kawamura et al., "Determining Undried Rough Rice Constituent Content Using Near-Infrared Transmission Spectroscopy", 1997, pp cover, 1,3,5, and 7
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	AO	Constantinos Goutis, "Second-Derivative Functional Regression with Applications to Near Infra-Red Spectroscopy", 1998, pp103-114
	AP	Milling Feed and Fertiliser, "FMBRA takes the Grind out of Measuring Moisture", pp 34-35

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	AA	5,224,203	06/29/93	Skeirik	395	22	
	AB	5,212,765	05/18/93	Skeirik	395	11	
	AC	5,619,618	04/08/97	Bigus	395	23	
	AD	5,617,511	04/01/97	Bigus	375	26	
	AE	5,697,373	12/16/97	Richards-Kortum et al.	128	664	
	AF	5,559,034	09/24/96	Roberts et al.	435	320.1	
	AG	5,605,577	02/25/97	Rayas et al.	127	67	
	AH	4,108,847	08/22/78	Creinin et al.	260	112 G	
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	AK	John S. Shenk et al., "Near Infrared Reflectance Analysis with Single-and Multiproduct Calibrations", 1993, pp582-584
	AL	D. T. Williams et al., "The Derivative Spectrometer", 1970, pp 1597-1605
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	AO	Kurt C. Lawrence et al., "Sensing Wheat Moisture Content Independent of Density", 1997, pp Cover Page, 1,3,5,7,9,11,13 and 15
	AP	Abraham Savitzky et al., "Smoothing and Differentiation of Data by Simplified Least Squares Procedures", 1964; pp1627-1639

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	AA	4,146,332	03/27/79	Moore	356	308	
	AB	3,776,642	12/04/73	Anson et al.	356	188	
	AC	5,478,748	12/26/95	Akins et al.	436	86	
	AD	4,866,644	09/12/89	Shenk et al.	364	571.02	
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	AF	3,861,788	01/21/75	Webster	350	315	

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	AK	Gerald S. Birth et al., "Interaction Between Light and Natural Materials: Laboratory Demonstrations", (4) Cover Pages, and pp1-36
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	AL	"Comments on Smoothing and Differentiation of Data by Simplified Least Square Procedure", 1972, pp 1906-1910
	AM	Edward K. Baldwin, Ph.D., "Calibrating Near Infrared Instruments for On-Line Food Processing Measurements", pp 252-265
	AN	P. D. Wilson et al., "Polynomial Filters of any Degree", 1981, pp 599-603
	AO	L. P. McDermott, "The Benefits and Pitfalls of Applying Near Infrared Analysis On-Line", pp 103-114
	AP	B. G. Osborne, "Monitoring the accuracy of NIR Instruments", 1987, pp 515-521
	AQ	James R. Long, "Spectroscopic Calibration and Quantitation Using Artificial Neural Networks", 1990, pp 1791-1797

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.